CCR #**03-0735**   Rev: **A**   Originator: Derrick Clark
Telephone: 301-925-1024   Office: 3010B
Title of Change: PATCH_6A.08_SecureDist.01B

CSG -

Please make the following tarfiles from the 6A08EBF1 baseline:

Make one SOL8 tar file from the 6A08EBF1 baseline with the following packages:

.EcDmINTFCSVR.pkg

.EcDsDdDISTSRVR.pkg
.EcDsDdEPD.pkg

.EcDsSdSDSRV.pkg
.EcDsSCLI.pkg
.EcDsSdDatabase.pkg

.EcDsStGUI.pkg
.EcDsStRequestManager.pkg

.EcMsDbSupport.pkg

.EcOmDatabase.pkg
.EcOmGUI.pkg
.EcOmServer.pkg

.EcNbCommon.pkg
.EcNbGUI.pkg

Make one IRIX65 tar file from the 6A08EBF1 baseline with the following packages:

.EcDsSdSrvGLAS.pkg (NSIDC only)
.EcDsSdSrvOMI.pkg (GSFC only)
.EcDsSCLI.pkg
.EcDsSdHdfEos.pkg (EDC only)

.EcDsStArchive.pkg
.EcDsStArchiveCheck.pkg
.EcDsStDatabase.pkg
.EcDsStFtpCopy.pkg
.EcDsStPullMonitor.pkg
.EcDsStStaging.pkg

.EcNb.pkg
.EcNbCommon.pkg
.EcNbDatabase.pkg

Please make on SOL8 (sun5.8) tar file from the 6A08EBF1 baseline with the following file:

/ecs/formal/CSS/Registry/.rgypatch.MediaOptions

Please label these tar file Patch_6A.08_SecureDist.01B

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This will delivery the following NCRs and Capability:

NCR	Subsystem	SEV	State	Site	Title
ECSed38087	OPS_DDIST	5	C	GSFC DAAC	Additional Criteria Needed for DsDdAssignmentRules
ECSed38035	OPS_DMS	2	T	EDC DAAC	ALL modes:EDG Browse searches are returning granules withou
ECSed38456	OPS_DMS	2	T	EDC DAAC	Using orig user profile names when creating EcAcRequest object.
ECSed38432	OPS_DMS	2	T	NSIDC DAAC	6A.08+ EDG 3.5.1 OPS ECS incorrectly processing 0,0,0,0 Tile Searches
ECSed33639	OPS_HEW	3	T	NSIDC DAAC	EPD: cant parse user string with embedded ' or "
ECSed38358	OPS_INSTALLATION	5	V	GSFC DAAC	GSFC/SMC - Please deliver the EcDsSCLI on a SUN box - .sitemap changes
ECSed38052	OPS_INSTALLATION	3	V	LaRC DAAC	.EcOmServer.iu should take out copying preamble files (and DDIST .iu)
ECSed38377	OPS_NOSE	5	T	GSFC DAAC	OMI NOSE orbit file needs to be replaced
ECSed37826	OPS_OM	5	T	EDC DAAC	ALL modes:Update and add fields on the OrderManager on the
ECSed38337	OPS_OM	3	C	EDF	Verify that the OMS GUI does not use "absolute" URL
ECSed38125	OPS_OM	5	T	GSFC DAAC	GSFC/SMC-Need the capability to change Priorities of an ord
ECSed38134	OPS_OM	5	T	GSFC DAAC	Need A Utility To Find Replacement Granules
ECSed38185	OPS_OM	5	T	GSFC DAAC	OMS should sort granules to minimize tape mounts
ECSed38077	OPS_SDSRV	5	T	EDC DAAC	6A.07:Pkg2:OPS:Can not verify results of Bulk Search Tool w
ECSed38374	OPS_SDSRV	2	T	EDC DAAC	OPS:6A.08:SA:HDF servers do not reconnect to SDSRV after being restarted
ECSed38047	OPS_SDSRV	2	C	EDF	Update of CollectionAssociation metadata fails in SDSRV
ECSed37709	OPS_SDSRV	3	T	GSFC DAAC	GSFC/SMC - EcDsUpdateESDTStart tool randomly fails updateab
ECSed38064	OPS_SDSRV	2	T	GSFC DAAC	GSFC/SMC: ScienceDataServer cored many times in OPS
ECSed38322	OPS_SDSRV	2	T	GSFC DAAC	GSFC/SMC - MTMGW search in TS2 does not work
ECSed38355	OPS_SDSRV	5	T	GSFC DAAC	Please allow EcDsSCLI acquire limits to be configurable
ECSed38356	OPS_SDSRV	5	T	GSFC DAAC	GSFC/SMC - Please deliver the EcDsSCLI on a SUN box
ECSed38089	OPS_SSS	3	T	GSFC DAAC	Unable to change priority for FtpPull acquires
ECSed38165	OPS_STMGT	3	T	EDC DAAC	Reduce memory usage of EcDsStArchiveCheck
ECSed38277	OPS_STMGT	3	T	GSFC DAAC	ArchiveCheck script needs to detect archive machines more accurately.
ECSed38092	OPS_STMGT	5	T	GSFC DAAC	Modify the FtpServer to select multiple requests at a time
ECSed38388	RelB0_Installation	3	V	EDF	Need to make corrections to .sitemap.sunconsol
ECSed38499	RelB0_OM	3	V	EDF	EcOmGuiOpenIntervDetail.pl missing lines to change priority
ECSed38502	RelB0_SDSRV	2	C	EDF	SDSRVSCLI rejecting scp requets
ECSed38503	RelB0_SSS	2	T	EDF	scp interface with SCLI failing
NCR	Subsystem	Sev	State	Site	Title

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ECSed38222	RelB0_SSS	2	T	PVC	Excessive deadlocks involving EcNbDpEventDetails
ECSed38375	OPS_DBDM	5	T	NSIDC DAAC	GLAS NOSE orbit file needs to be updated with 91 day repeat cycle tracks
ECSed38538	OPS_INSTALLATION	3	T	PVC	The SDSRV .*patch in 6A08 and 6A08EBF1 were overwritten from relb
ECSed38547	OPS_INSTALLATION	3	T	PVC	The .rgypatcy.MediaOptions should be DAAC specific
ECSed38549	RelB0_MSS	2	T	EDF	EcCoScriptlib function "record_proc" should be public.
ECSed38536	RelB0_DBDM	2	R	PVC	The OMS Database Patch 6804 have 0 length files in 6A08 and 6A08EBF1
ECSed38537	OPS_INSTALLATION	3	T	PVC	The new configuration parameter scpThreshold missing from .cfgpatch file
ECSed38539	OPS_INSTALLATION	3	T	PVC	The .cfgparms for Secure Ingest and Secure Dist should be different
ECSed38558	OPS_INSTALLATION	3	T	EDF	Need to make the scp data transfer times configurable

Patch_6A.08_SecureDist_01B will re-deliver the following NCRs:

NCR		Severity	State		Description
ECSed37124	OPS_DBDM	3	T	GSFC DAAC	Granule deletion failed in the PVC
ECSed38025	OPS_BMGT	3	T	GSFC DAAC	Generating Incorrect VerticalSpatialDomain Elements

  *These NCRs were delivered with TE_6A.08_SDSRV.01.

New Capability
        Secure Distribution Capability

PATCH/TE DEPENDENCIES:

This Patch must be installed on top of:
  6A_08
  Patch_6A.08_SYSTEM.01
  Requires execution of the following CCRs:
          03-0689 Secure Shell 3.2.3
          03-0728 Genkey TE

This Patch must be installed prior to or concurrent with Patch_6A.08_INGEST.01B

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DAAC Install Instructions:

A. PRE-INSTALLATION

1. Copy the *irix* tar file into the <staging_area>/IRIX65/ directory
2. Using the setup.ksh file untar the 6A.08_SecureDist.01B tar file in the <staging_area>/IRIX65/ directory
3. cd <staging_area>/IRIX65/CUSTOM
4. chmod 664 .sitemap*
5. cd <staging_area>/IRIX65/CUSTOM/dbms
6. chmod -R 755 *
7. Copy the *sun* tar file into the <staging_area>/SOL8/ directory
8. Using the setup.ksh file untar the 6A.08_SecureDist.01B tar file in the <staging_area>/SOL8/ directory
9. cd <staging_area>/SOL8/CUSTOM/
10. chmod 664 .sitemap*
11. cd <staging_area>/SOL8/CUSTOM/dbms
12. chmod –R 775 *
13. As root, untar ECS Assist (If you have already untarred Patch_6A.08_INGEST.01B, then you may skip this step).
14. As root, chmod 755 /tools/common/ea/EcCoStartSecureAgent
15. Copy the *sun* tar file that contains the .rgypatch.MediaOptions into the staging_area>/SOL8/ directory.
16. Untar the tar file using the tar command
17. chmod 664 .rgypatch.MediaOptions:
18. Edit the file <staging_area>/SOL8/.rgypatch.MediaOptions.
19. Remove lines 1 thru 129 leaving media distribution options for "scp" only.
20. Edit the remaining lines and change DAACNAME to your DAAC name (LARC or GSFC)

If you have already completed SUN Consolidation, then Copy SUN consolidated sitemap to sitemap file.

1. Change directory to "<staging_area>/SOL8/CUSTOM".
2. Copy .sitemap to .sitemap.orig
3. Copy .sitemap.sunconsol to .sitemap
4. Copy .site* to <staging_area>/IRIX65/CUSTOM

B. INSTALLATION:

1. On any SUN host bring up E.A.S.I and select "Full" for install type.
2. Install all delivered packages.

C. CONFIGURATION:

I. DSS/EcDsDd Mkcfgs (Distribution Server)

The following parameter was added in Patch_6A.08_SecureDist.01B for *"Distribution Server"*

Parameter	Recommended Value	Definitions
scpThreshold	20000000000 (Default in bytes)	Maximum size a request is allowed before a "suspension of request" is generated on the distribution GUI.

1. Logon to the host where the EcDsDdDISTSRVR package is installed (xxdis02 or xxacsnn)

2. Start Ecs Assist's Subsystem Manager to execute EcDsDistributionServerMkcfg creating EcDsDistributionServer.CFG.

3. Move the EcDsDistributionServer.CFG file to EcDsDistributionServer.CFG.rgy file.

4. Use Ecs Assist's Subsystem Manager to execute the /usr/ecs/<MODE>/CUSTOM/.installed/DSS/stmgt/.rgypatch file to load the correct parameters into the appropriate Registry Tree.

II. DSS/EcDsSr Mkcfgs (SCLI)

The following parameter was added in Patch_6A.08_SecureDist.01B for the *"SCLI"*:

Parameter	Recommended Value	Definitions
MAXURSPERACQUIRE	100 (Default)	Maximum number of Urs allowed per acquire

1. Logon to each host where the EcDsSCLI package is installed. (See .sitemap for a list of hosts)

2. Start Ecs Assist's Subsystem Manager to execute EcDsSCLIMkcfg creating EcDsSCLI.CFG. (The SCLI .CFG file is NOT loaded into the Registry.)

III. EcDsSt Mkcfgs (Storage Management)

NOTE: If you have already installed Patch_6A.08_INGEST.01B, then the following configuration changes will already have been completed.

The following parameters were added in Patch_6A.08_SecureDist.01B for the *"Ftp Server"*:

Parameter	Recommended Value	Definitions
CopyServerHost	Where the FtpServer is installed (Default)	Host where copy server is running
CopyServerPort	The correct value will be set by the .cfgpatch and/or .rgypatch.	Listening Port number used to access the copy server
CopyServerMaxClients	Default is 5	Maximum number of clients that can connect to copy server host

The following parameters were added in Patch_6A.08_SecureDist.01B for the *"Copy Server"*:

Parameter	Recommended Value	Definitions
CopyServerTimeout	Default is 1800 (30 minutes) for all DAAC except LARC	Maximum time allocated for data transfers during scp process

The following two parameters were deleted in Patch_6A.08_SecureDist.01B for the *"Ftp Server"*:

Parameter	Reason
SecureHostPort	Replaced with "CopyServerHost"
SecureServerHost	Replaced with "CopyServerPort"

1. Logon to each host where the EcDsStFtpCopy package is installed (See the .sitemap for a list of hosts)

2. Start Ecs Assist's Subsystem Manager to execute EcDsStCopyServerMkcfg creating EcDsStCopyServer.CFG and EcDsStFtpServerMkcfg creating EcDsStFtpServer.CFG. (The EcDsStCopyServer .CFG file is NOT loaded into the Registry.)

3. Move the EcDsStFtpServer.CFG file to EcDsStFtpServer.CFG.rgy file.

Run the Registry Patch

1. Logon to the host where the EcDsStmgtGUI or the EcDsStRequestManager is installed..

2. You will have to edit the /use/ecs/<MODE>/CUSTOM/.installed/DSS/stmgt/.rgypatch and uncomment the "CopyServerPort" depending on the mode you are installing.

3. Start Ecs Assist's Subsystem Manager to execute the /usr/ecs/<MODE>/CUSTOM/.installed/DSS/stmgt/.rgypatch file to load the correct parameters, for the EcDsStFtpServer, into the appropriate Registry Tree.

IV. Order Manager (OMS)

The following parameter was added in Patch_6A.08_SecureDist.01B for *"EcOmGUI".*

Parameter	Recommended Value	Definitions
ReplaceMultipleGranules	0 (Default)	Setting the values of this parameter to 1 turns this option on, a 0 turns this option off

1. Logon to the host where the EcOmGUI package is installed (xxdps01)

2. Start Ecs Assist's Subsystem Manager to execute EcOmGUIMkcfg creating EcOmGui.CFG. (The EcOmGui .CFG file is NOT loaded into the Registry.)

DATABASE CHANGES:

 – See the attached document for a description of the database patches. The Database patches should be run in the following order.

I. MSS

At a minimum, the MSS database should be at Patch Level "6801".

1. Logon on the host where the MSS database package is installed (see .sitemap)

2. Start Ecs Assist's Subsystem Manager and patch the database to Patch Level "6802".

II. Science Data Server (DSS/SDSRV)

At a minimum, the SDSRV database should be at Patch 6.6.50. If TE_6A_08_SDSRV has been installed, the patch level should be 6.6.56 which indicates you do not have to patch the SDSRV database.

1. Logon on the host where the SDSRV and OMS database packages are installed (see .sitemap)

2. If "TE_6A_08_SDSRV" has not been installed, start Ecs Assist's Subsystem Manager and patch the database to Patch Level "6.6.56".

3. Run the EcDsAddOmsUsers in the /usr/ecs/<MODE>/CUSTOM/dbms/ directory. This adds the OMS Gui as a user of the SDSRV database.

III. Order Manager (OMS)

At a minimum, the OMS database should be at Patch Level "6801".

1. Start Ecs Assist's Subsystem Manager and patch the database to Patch Level "6819".

IV. STMGT (DSS/SDSRV)

1. Logon on the host where the STMGT and SSS database packages are installed (see .sitemap)

At a minimum, the STMGT database should be at Patch Level "6838".

2. Start Ecs Assist's Subsystem Manager and patch the database to Patch Level "6844".

V. Spatial Subscription Server (SSS)

At a minimum, the SSS database should be at Patch Level "6801".

1. Use Ecs Assist's Subsystem Manager and patch the database to Patch Level "6810".

POST INSTALLATION:

Copy the SDSRV DLLs to the /usr/ecs/<MODE./CUSTOM/lib/DSS directory.

1. Logon on to the SDSRV host as cmshared (or allmode at GSFC only)
2. Change directory to "/usr/ecs/<MODE>/CUSTOM/lib/ESS"
3. cp * ../DSS/

This section should be executed only if your DAAC plans to use scp.

Setup for Secure Agent

See the .sitemap for a list of all hosts where the .EcDsStFtpCopy.pkg is installed.

The *"/usr/ecs/<MODE>./CUSTOM/data/DSSAgentData_DSS.ini"* file has to be configured for use with the Secure Shell Agent.

   We have created a new script, "EcCoStartSecureAgent", which uses the aforementioned ini file's configuration information to start the Secure Agent process. The active Secure Agent process allows data transfer between the remote and local hosts without requesting the password.

Logon to each host where the EcDsStCopyServer is installed and execute steps 1 thru 6.

1. Change directory to "/usr/ecs/<MODE>/CUSTOM/data/DSS"

2. As cmshared|allmode create a file that contains the cmshared|allmode "passphrase". e.g. JUNK

3. Execute the crypt command to encrypt your passphrase.

4. crypt [KEY] < JUNK > ssa.p
   WHERE
      KEY is a number that will be stored in the file "AgentData_DSS.ini" (any 6-9 digit number).
      JUNK contains your passphrase.
      ssa.p contains the encrypted passphrase.

5. Edit the file AgentData_DSS.ini.

Change "ProgramID" for the array arrCfgInfo from NULL to KEY (6-9 digit number used in step 4.
Change "PasswordFile" for the array arrCfgInfo from NULL to /usr/ecs/<MODE>/CUSTOM/data/DSS/ssa.p
save the edits

6. rm JUNK

****
NOTE: Passphrase change requires execution of steps2 thru 6. (emphasis added)
****

Setup for Media Distribution Options for "scp".

This section should be executed only if your DAAC plans to use scp.

Follow the step below to create a .rgypatch.MediaOptions file for "scp" only.

NOTE: Within the Registry GUI, if you do not have a copy of the Media Options under the V0 Gateway node, copy the current Media Options node and paste it under the V0 Gateway node. (This is to so the "scp" option cannot be accessed via the EDG.)

1. To set the parameters correctly in the Registry, use Ecs Assist's Subsystem Manager on the staging host, to execute the revised <staging_area>/SOL8/.rgypatch.MediaOptions file to load the parameters into the appropriate Registry Tree.

At this point, the media distribution options for scp have been added to the generic section for Media Distribution Options. All requests for media that are to be distributed for option "scp" should be satisfied.

SMC Installation Instructions:

The SMC only needs to install the MSS Database package and update the MSS database to the correct version. No coordination is required between the SMC and DAAC as no changes to the User Profile table.